11/26/86 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE November 14, 1986

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1986)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during October for the first time since July, 1985, fifteen months ago. The land crew total increased by five, and the marine crew total decreased by two for a net increase of three crews.

The October total (158) represents an increase of 2% from last month, a 56% decrease from October 1985, a 68% decrease from October, 1984, a 68% decrease from October, 1983, a 69% decrease from October, 1982, a 79% decrease from October, 1981, and a decrease of 72% from the same month in 1980.

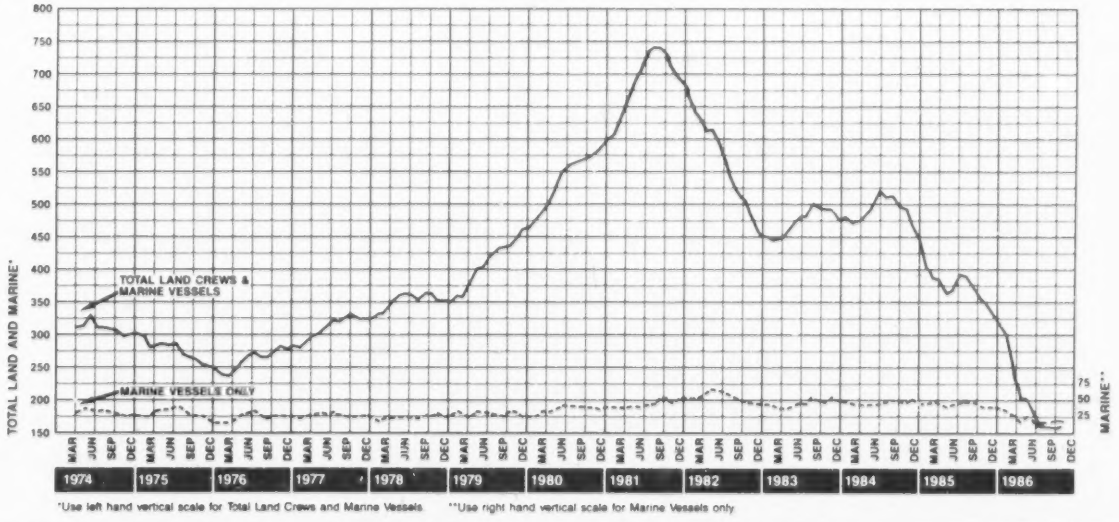
During October, two contractors were operating one of the 119 land crews and one of the eighteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'85	Oct.'84	Oct.'83	Oct.'82	Oct.'81	Oct.'80
	158	155	357	497	498	516	741	571

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982	Oct. 1981	Oct. 1980	This Mo.	Last Mo.	Oct. 1985	Oct. 1984	Oct. 1983	Oct. 1982	Oct. 1981	Oct. 1980
43 Contr's:	119	114	279	412	410	423	646	490	18	20	38	42	42	42	44	33
7 Oil Co's:	17	17	33	37	38	42	43	40	4	4	7	6	7	8	7	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
Totals	136	131	312	449	448	465	689	530	22	24	45	48	50	51	52	41

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

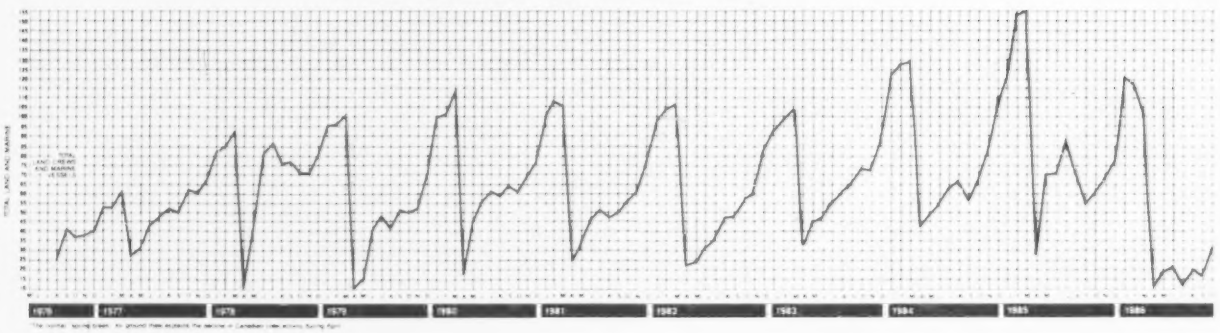
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1986 (September figures in parentheses)

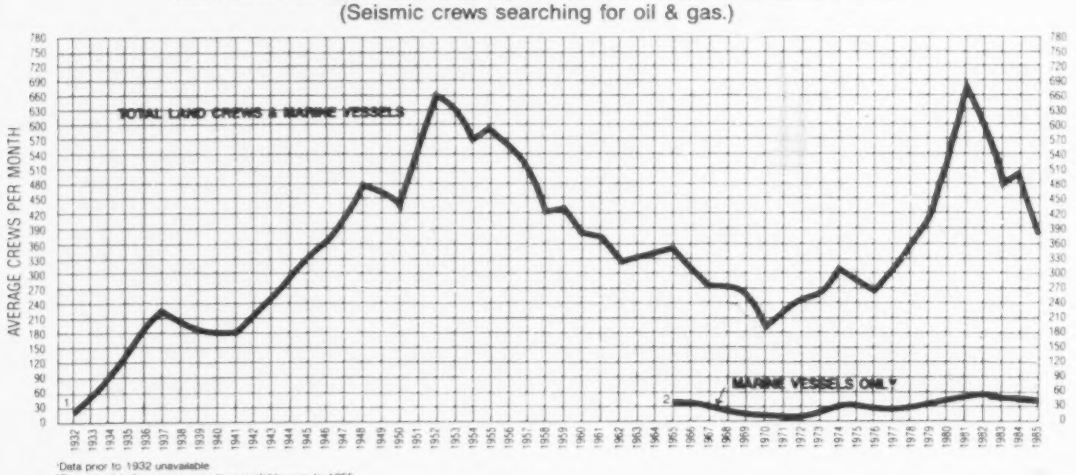
	Land Crews	Marine Vessels
17 Contractors:	32 (16)	0 (1)
0 Oil Companies:	0 (0)	0 (0)
Totals:	32 (16)	0 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

12/15/86 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE December 9, 1986

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1986)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters remained the same as the previous month. The land crew total increased by three, and the marine crew total decreased by three.

The November total (158) represents no increase or decrease from last month, a 54% decrease from November, 1985, a 68% decrease from November, 1984, a 68% decrease from November, 1983, a 69% decrease from November, 1982, a 78% decrease from November, 1981, and a decrease of 72% from the same month in 1980.

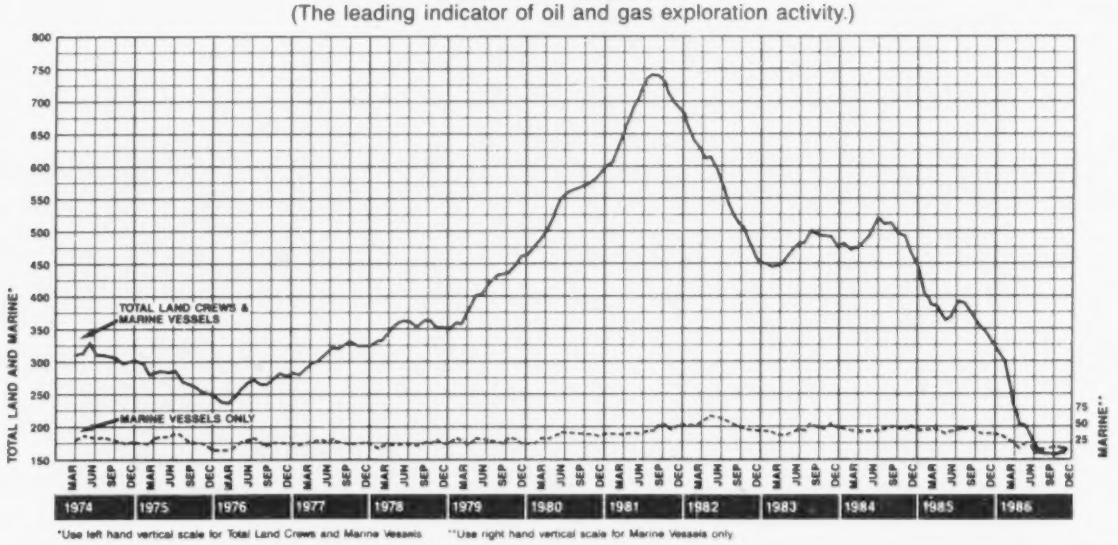
During November, three contractors were operating three of the 121 land crews and none of the fifteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'85	Nov.'84	Nov.'83	Nov.'82	Nov.'81	Nov.'80
	158	158	346	493	495	502	733	572

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982	Nov. 1981	Nov. 1980	This Mo.	Last Mo.	Nov. 1985	Nov. 1984	Nov. 1983	Nov. 1982	Nov. 1981	Nov. 1980
40 Contr's:	121	119	273	407	408	410	638	491	15	18	35	42	42	42	45	33
7 Oil Co's:	18	17	32	37	38	42	43	40	4	4	6	7	7	7	7	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Totals	139	136	305	444	446	452	681	531	19	22	41	49	49	50	52	41

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

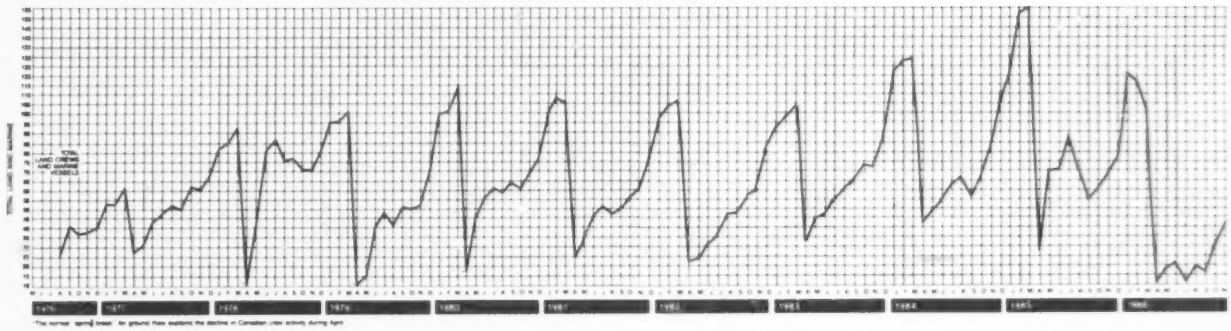
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1986 (October figures in parentheses)

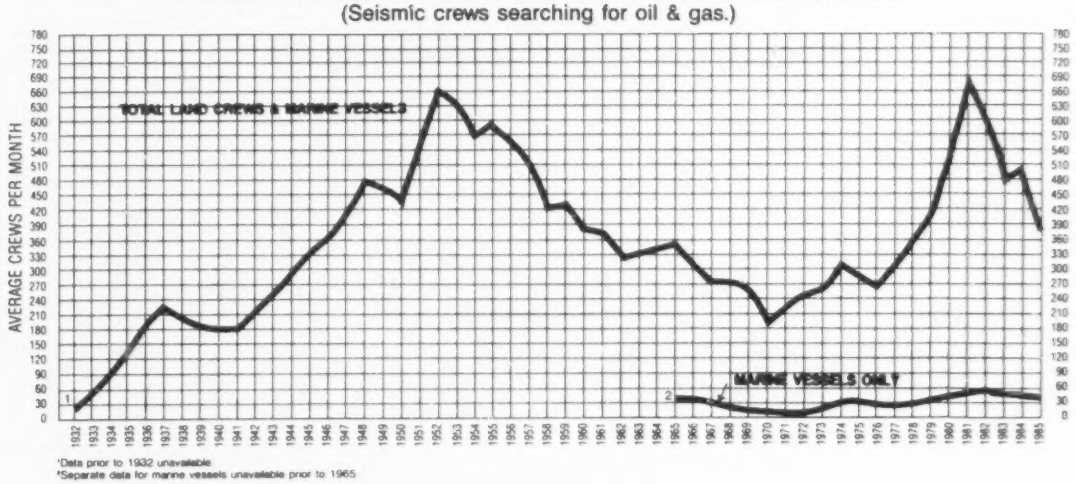
	Land Crews	Marine Vessels
20 Contractors:	42 (32)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	42 (32)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

1/21/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 9, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1986)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by one crew from the previous month. The land crew total remained the same and the marine crew total decreased by one.

The December total (157) represents a decrease of 1% from last month, a 52% decrease from December, 1985, a 66% decrease from December, 1984, a 68% decrease from December, 1983, a 67% decrease from December, 1982, a 78% decrease from December, 1981, and a decrease of 73% from the same month in 1980.

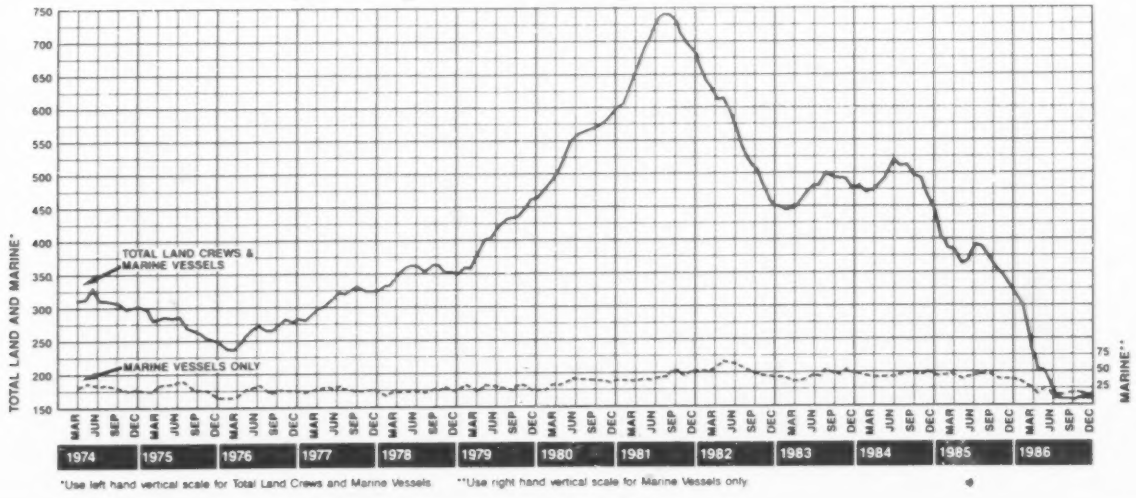
During December, three contractors were operating two of the 139 land crews and one of the eighteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 157	Last Month 158	Dec.'85 326	Dec.'84 466	Dec.'83 493	Dec.'82 477	Dec.'81 703	Dec.'80 580

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982	Dec. 1981	Dec. 1980	This Mo.	Last Mo.	Dec. 1985	Dec. 1984	Dec. 1983	Dec. 1982	Dec. 1981	Dec. 1980
39 Contr's:	121	121	255	378	408	386	613	500	15	15	33	44	41	42	39	34
7 Oil Co's:	18	18	32	36	37	42	43	40	3	4	6	8	7	7	8	6
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	139	139	287	414	445	428	656	540	18	19	39	52	48	49	47	40

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

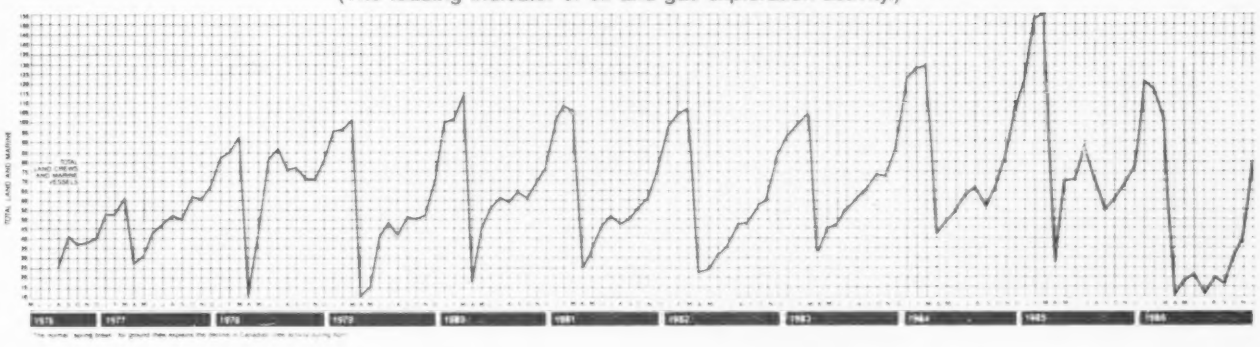
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

December, 1986 (November figures in parentheses)

	Land Crews	Marine Vessels
23 Contractors:	78 (42)	0 (0)
1 Oil Company:	2 (0)	0 (0)
Totals:	80 (42)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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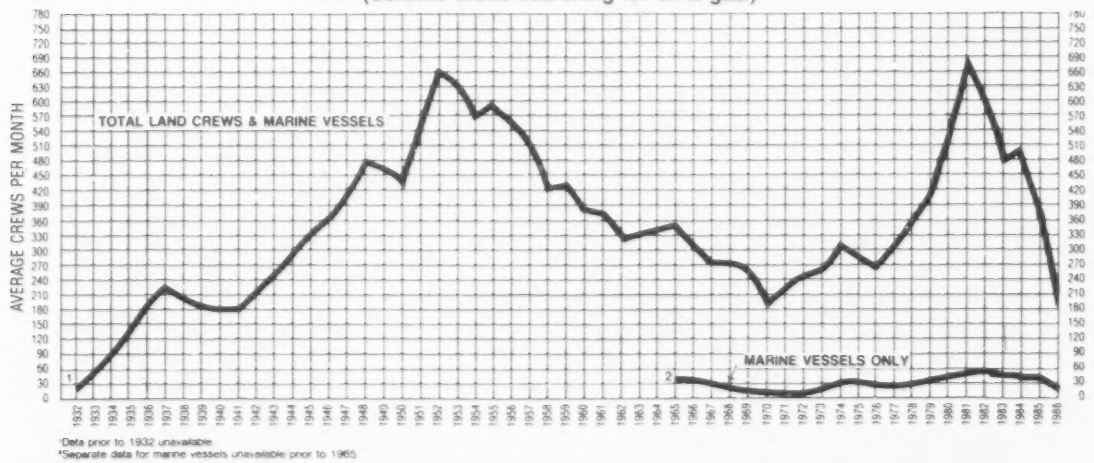
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1965

2/20/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE February 9, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of January, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased by three crews from the previous months. The land crew total increased by three and the marine crew total remained the same. The total number of crews has remained relatively stable for the last six months around the 158-crew mark.

The January total (160) represents an increase of 2% from last month, a 48% decrease from January, 1986, a 64% decrease from January, 1985, a 66% decrease from January, 1984, a 65% decrease from January, 1983, a 77% decrease from January, 1982, and a decrease of 73% from the same month in 1981.

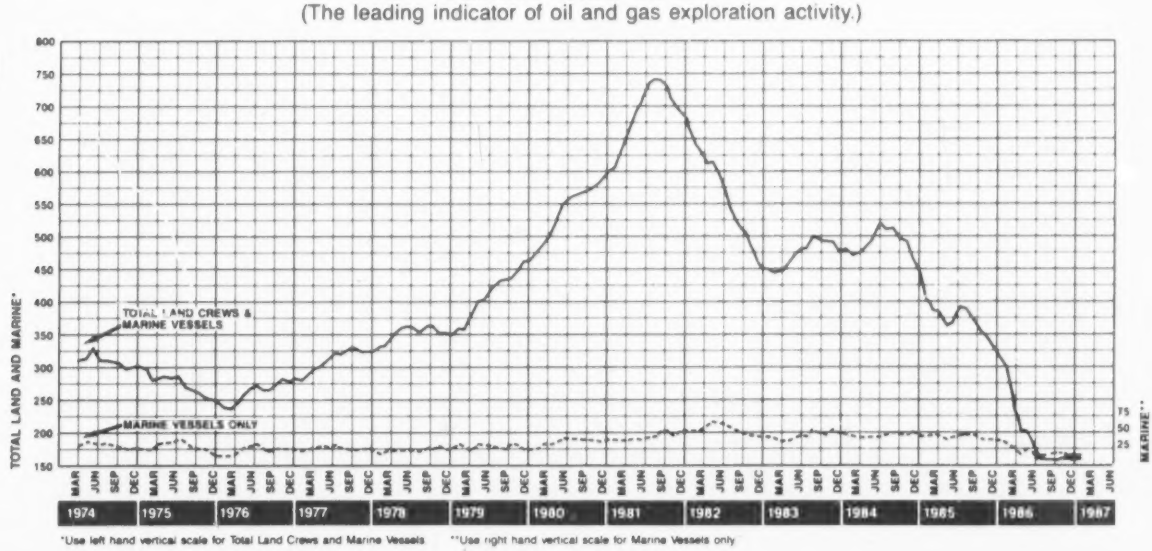
During January, one contractor was operating one of the 126 land crews and none of the eighteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Jan.'86	Jan.'85	Jan.'84	Jan.'83	Jan.'82	Jan.'81
	160	157	310	439	477	456	695	591

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983	Jan. 1982	Jan. 1981	This Mo.	Last Mo.	Jan. 1986	Jan. 1985	Jan. 1984	Jan. 1983	Jan. 1982	Jan. 1981
40 Contr's:	126	121	240	358	390	365	599	513	15	15	34	39	42	42	46	32
6 Oil Co's:	16	18	31	35	37	42	43	40	3	3	5	7	8	7	7	6
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	142	139	271	393	427	407	642	553	18	18	39	46	50	49	53	38

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



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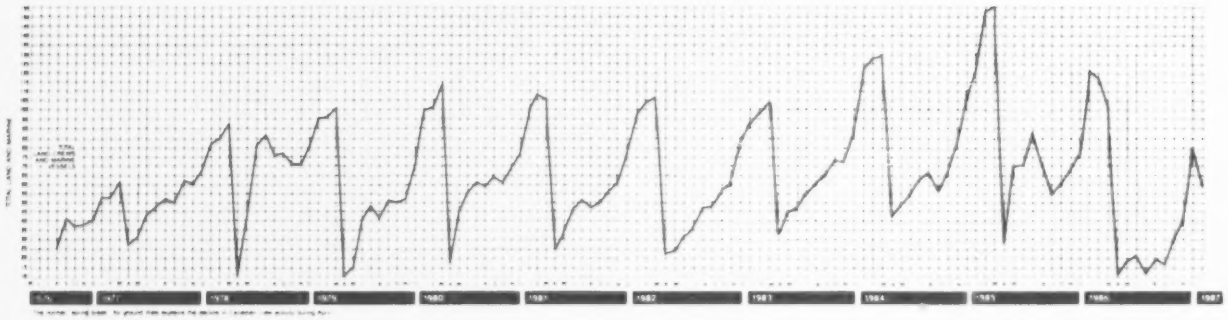
CANADIAN SEISMIC CREW COUNT

January, 1987 (December, 1986 figures in parentheses)

	Land Crews	Marine Vessels
24 Contractors:	56 (78)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	58 (80)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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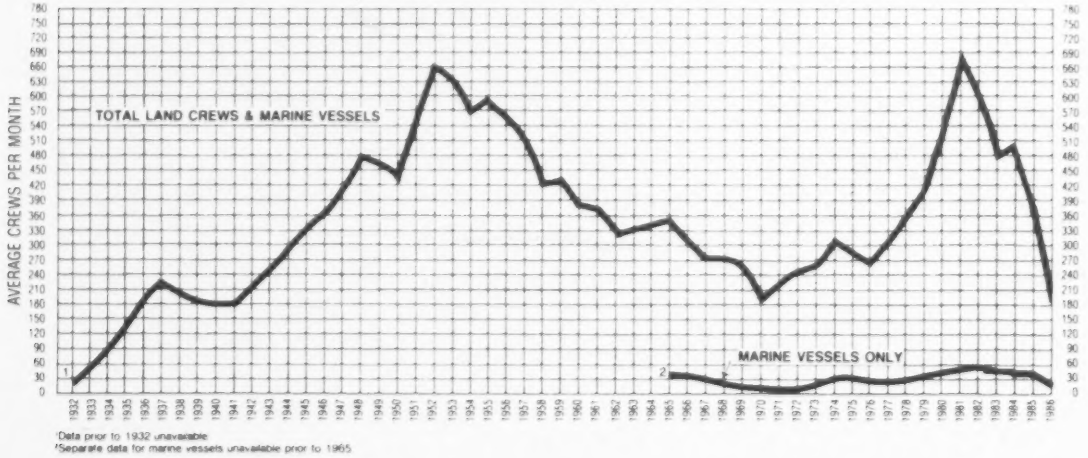
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

3/19/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

March 6, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of February, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by nine crews from the previous month. The land crew total decreased by ten, and the marine crew total increased by one for a net decrease of nine crews. The nine-crew decrease marks the largest monthly decrease since July, 1986.

The February total (151) represents a decrease of 6% from last month, a 49% decrease from February, 1986, a 63% decrease from February, 1985, a 69% decrease from February, 1984, a 67% decrease from February, 1983, a 78% decrease from February, 1982, and a decrease of 75% from the same month in 1981.

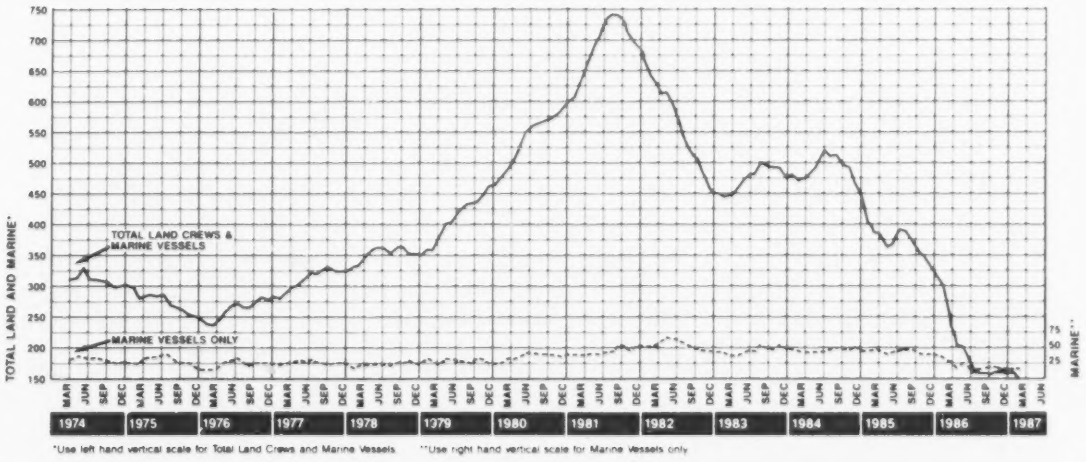
During February, three contractors were operating four of the 119 land crews and none of the sixteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Feb.'86	Feb.'85	Feb.'84	Feb.'83	Feb.'82	Feb.'81
	151	160	295	406	486	451	678	602

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983	Feb. 1982	Feb. 1981	This Mo.	Last Mo.	Feb. 1986	Feb. 1985	Feb. 1984	Feb. 1983	Feb. 1982	Feb. 1981
37 Contr's:	119	126	226	326	396	362	582	520	16	15	34	38	45	40	46	34
6 Oil Co's:	13	16	30	34	37	42	43	41	3	3	5	7	8	7	7	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Totals	132	142	256	360	433	404	625	561	19	18	39	46	53	47	53	41

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



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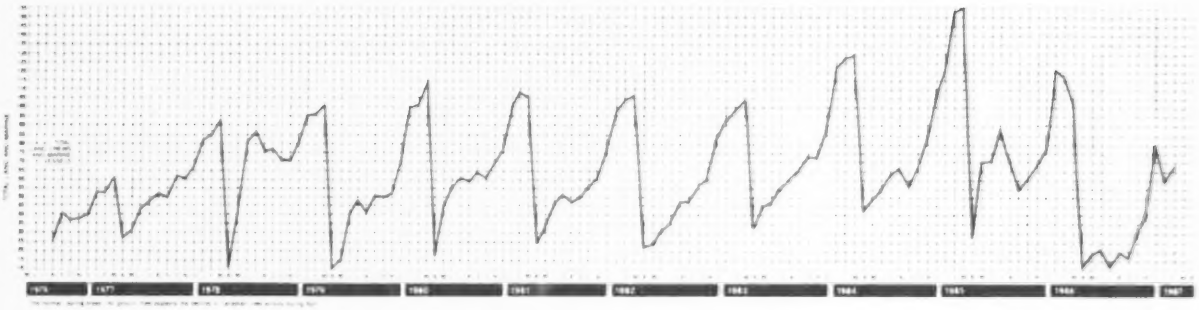
CANADIAN SEISMIC CREW COUNT

February, 1987 (January figures in parentheses)

	Land Crews	Marine Vessels
28 Contractors:	66 (56)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	68 (58)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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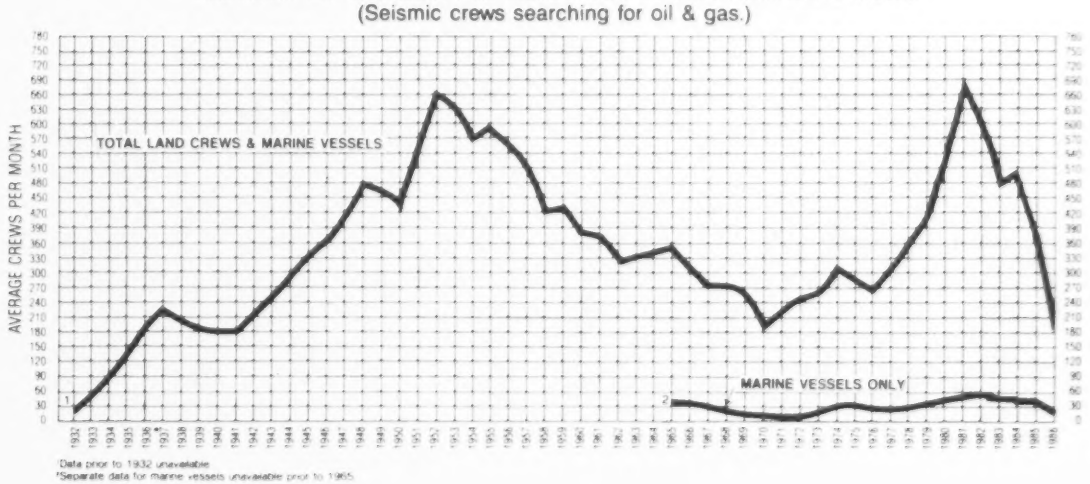
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1965.

A8912-1
4/22/87

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

April 13, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of March, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased by one crew from the previous month. The land crew total remained the same, and the marine crew total decreased by one crew.

The March total (150) represents a decrease of 1% from last month, a 38% decrease from March, 1986, a 61% decrease from March, 1985, a 68% decrease from March, 1984, a 66% decrease from March, 1983, a 77% decrease from March, 1982, and a decrease of 75% from the same month in 1981.

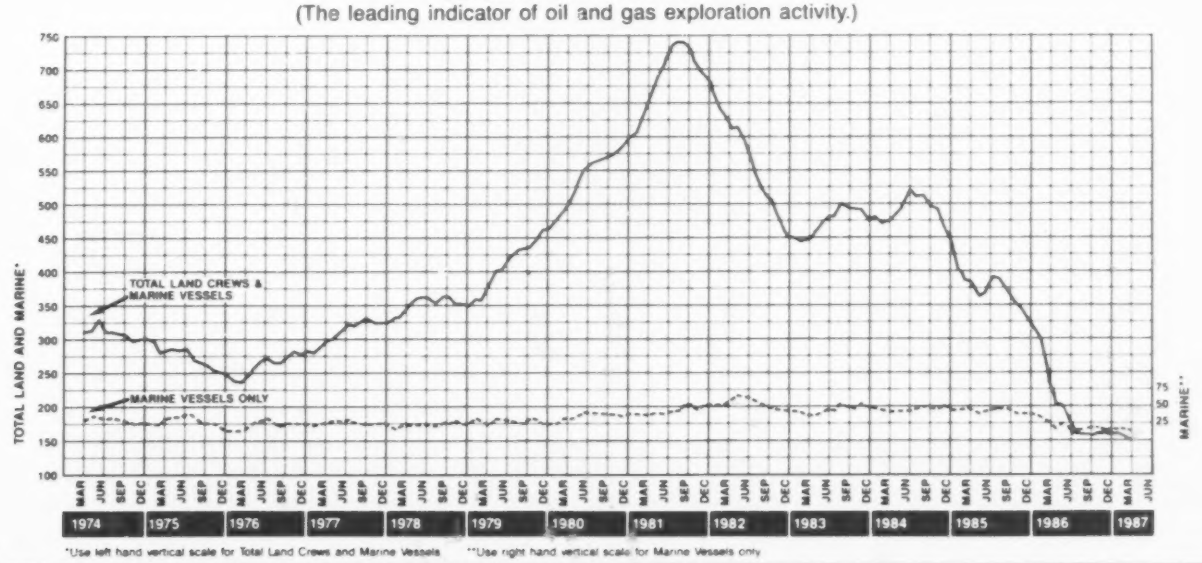
During March, two contractors were operating two of the 118 land crews and none of the fifteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Mar.'86	Mar.'85	Mar.'84	Mar.'83	Mar.'82	Mar.'81
	150	151	240	388	471	447	649	610

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	Mar. 1986	Mar. 1985	Mar. 1984	Mar. 1983	Mar. 1982	Mar. 1981	This Mo.	Last Mo.	Mar. 1986	Mar. 1985	Mar. 1984	Mar. 1983	Mar. 1982	Mar. 1981
36 Contr's:	118	119	185	306	386	360	554	529	15	16	23	40	39	38	45	33
7 Oil Co's:	14	13	27	34	38	42	43	41	3	3	5	7	8	7	7	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Totals	132	132	212	340	424	402	597	570	18	19	28	48	47	45	52	40

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



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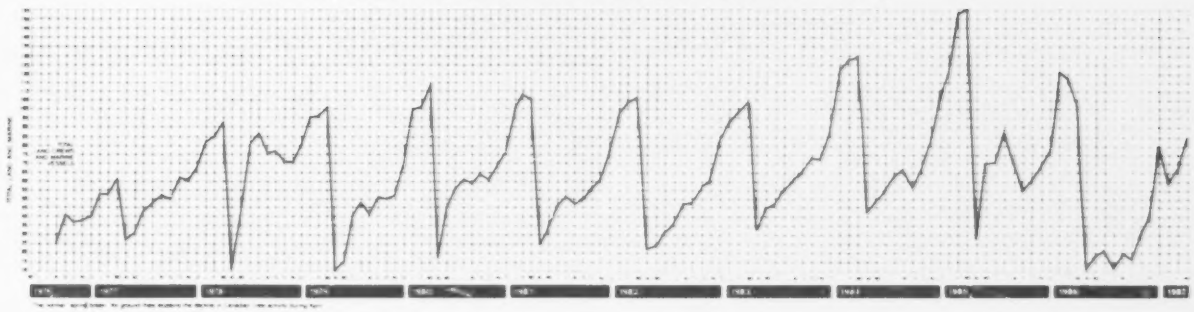
CANADIAN SEISMIC CREW COUNT

March, 1987 (February figures in parentheses)

	Land Crews	Marine Vessels
28 Contractors:	82 (66)	0 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	84 (68)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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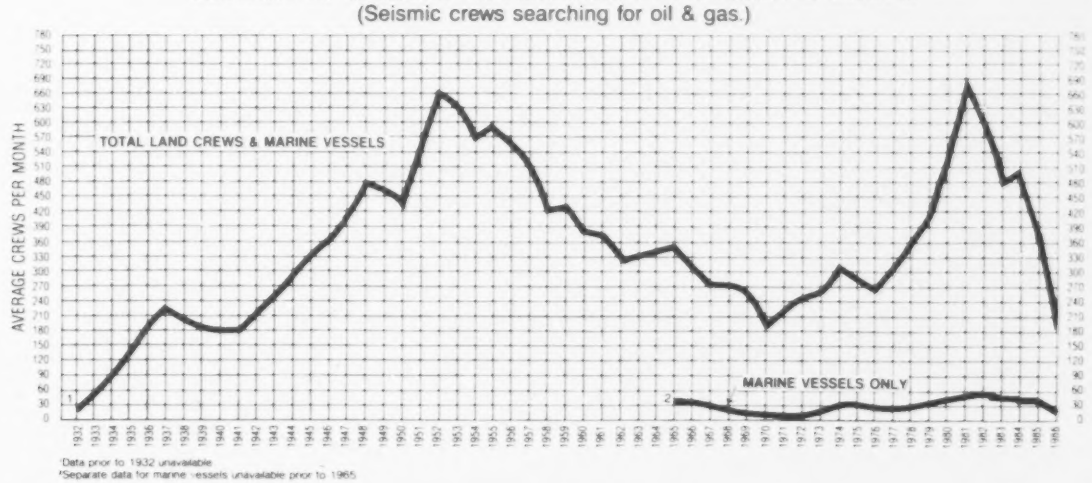
(Seismic crews searching for oil & gas.)



Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

5/18/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE May 8, 1987

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of April, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters made its largest increase since July of 1985. The land crew total increased by thirteen crews, and the marine crew total increased by one for a net increase of fourteen crews to a total of 164.

The April total (164) represents an increase of 9% from last month, a 20% decrease from April, 1986, a 57% decrease from April, 1985, a 65% decrease from April, 1984, a 63% decrease from April, 1983, a 74% decrease from April, 1982, and a decrease of 75% from the same month in 1981.

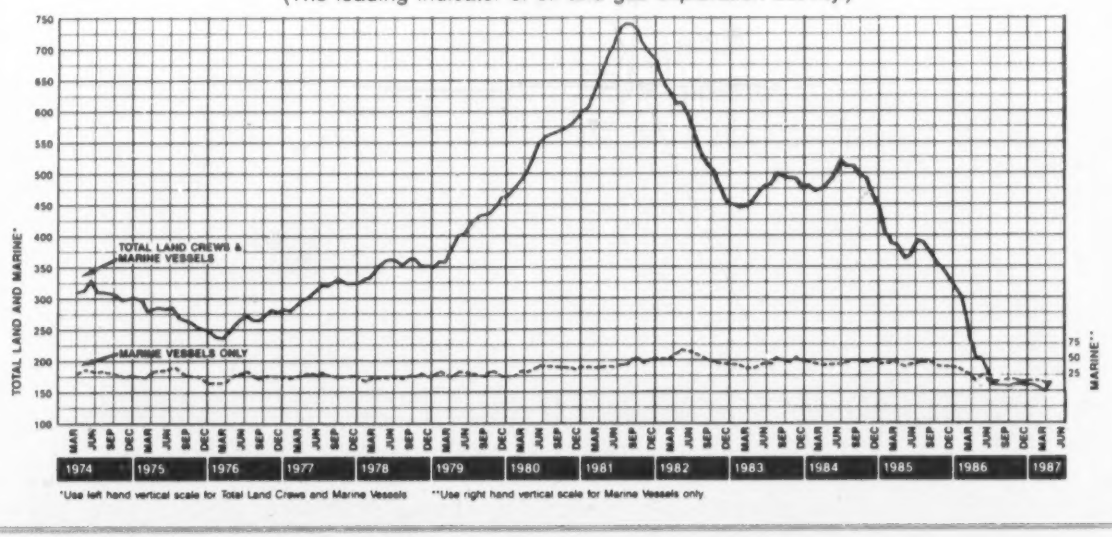
During April, three contractors were operating three of the 131 land crews and none of the nineteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Apr.'86	Apr.'85	Apr.'84	Apr.'83	Apr.'82	Apr.'81
	164	150	205	383	473	449	626	645

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	Apr. 1986	Apr. 1985	Apr. 1984	Apr. 1983	Apr. 1982	Apr. 1981	This Mo.	Last Mo.	Apr. 1986	Apr. 1985	Apr. 1984	Apr. 1983	Apr. 1982	Apr. 1981
40 Contr's:	131	118	159	304	385	369	528	564	16	15	15	39	42	32	48	32
7 Oil Co's:	14	14	26	32	38	41	43	41	3	3	5	7	8	7	7	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Totals	145	132	185	336	423	410	571	605	19	18	20	47	50	39	55	40

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels **Use right hand vertical scale for Marine Vessels only

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

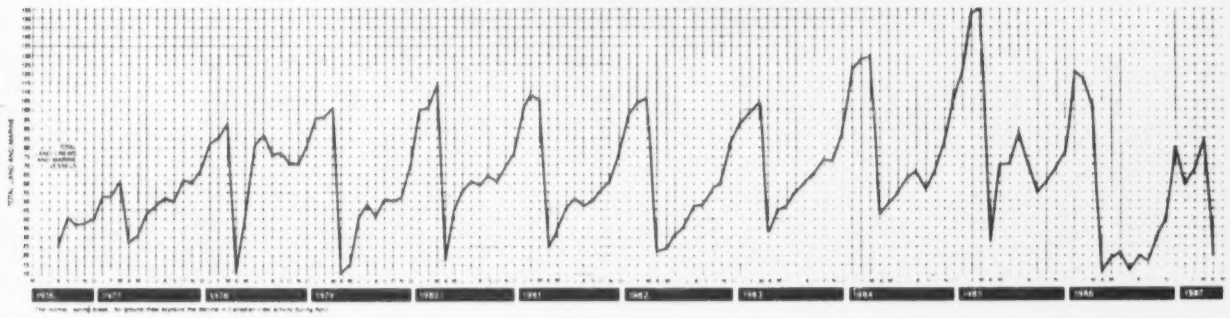
CANADIAN SEISMIC CREW COUNT

April, 1987 (March figures in parentheses)

	Land Crews	Marine Vessels
16 Contractors:	20 (82)	0 (0)
0 Oil Companies:	0 (2)	0 (0)
Totals:	20 (84)	0 (0)

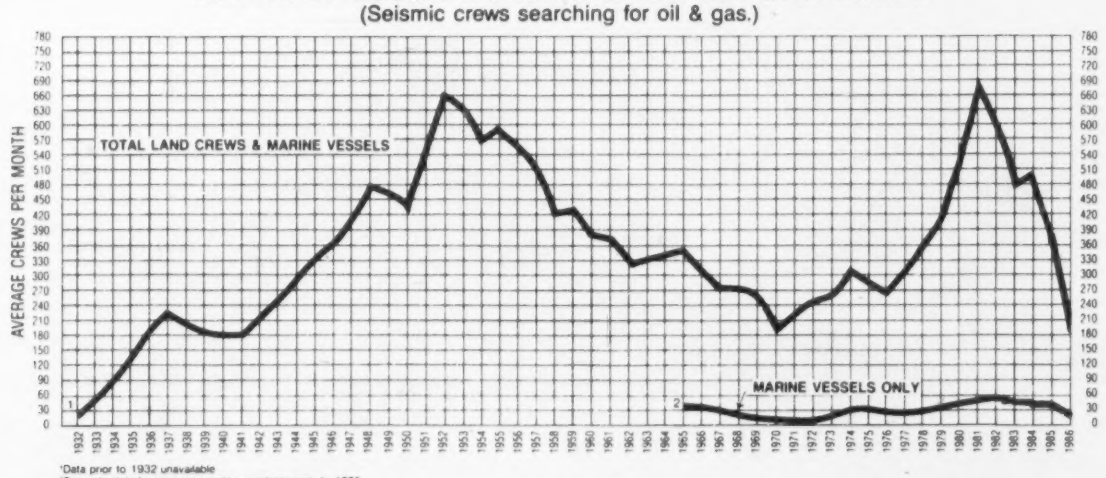
Note: "Spring Break" for ground thaw explains the decline in Canadian crew activity during April.

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

6/15/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE June 8, 1987

Contact: David L. Yowell or Sally Shank (918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of May, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters showed an increase for the second consecutive month. The land crew total increased by one crew, and the marine crew total increased by one for a net increase of two crews to a total of 166.

The May total (166) represents an increase of 1% from last month, a 13% decrease from May, 1986, a 54% decrease from May, 1985, a 66% decrease from May, 1984, a 64% decrease from May, 1983, a 73% decrease from May, 1982, and a decrease of 75% from the same month in 1981.

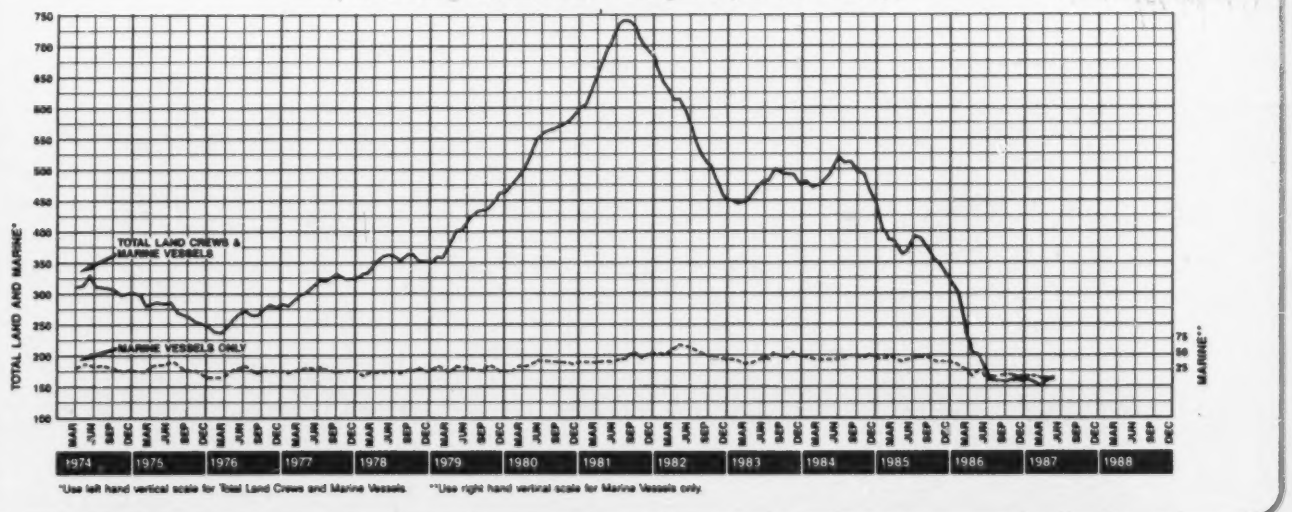
During May, one contractor was operating one of the 131 land crews and none of the twenty vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 166	Last Month 164	May '86 191	May '85 364	May '84 490	May '83 455	May '82 612	May '81 661

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	May 1986	May 1985	May 1984	May 1983	May 1982	May 1981	This Mo.	Last Mo.	May 1986	May 1985	May 1984	May 1983	May 1982	May 1981
41 Contr's:	131	131	148	293	406	375	508	578	17	16	14	35	38	33	53	34
8 Oil Co's:	15	14	24	30	38	41	43	41	3	3	5	5	8	6	8	7
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Totals	146	145	172	323	444	416	551	619	20	19	19	41	46	39	61	42

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



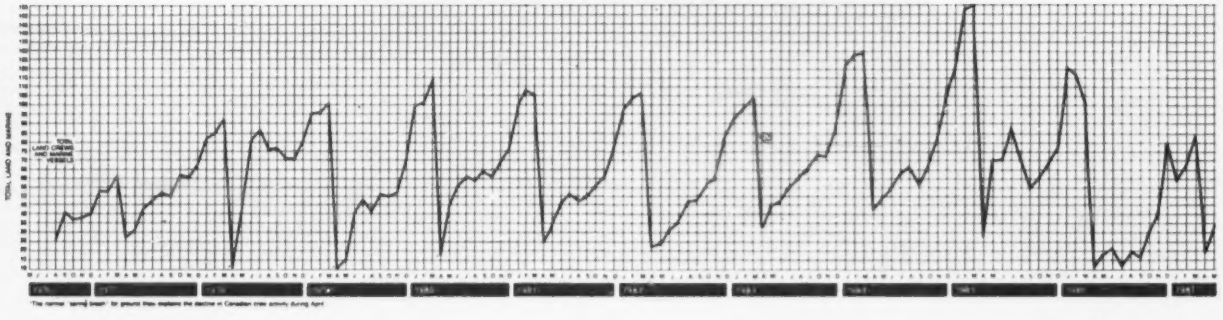
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

May, 1987 (April figures in parentheses)

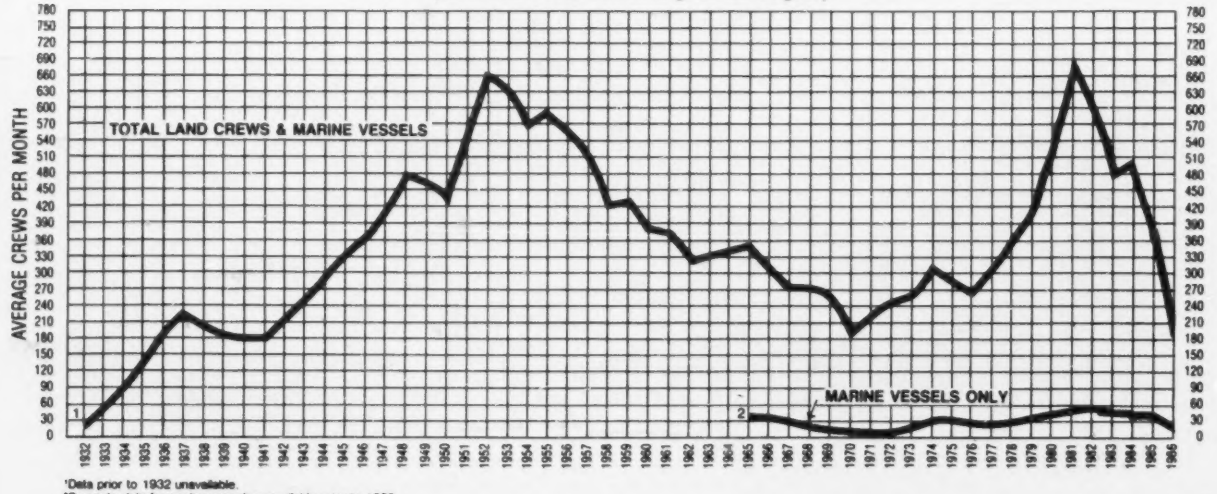
	Land Crews	Marine Vessels
21 Contractors:	33 (20)	1 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	33 (20)	1 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1965.

7/21/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE July 10, 1987

Contact: David L. Yowell
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(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of June, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters showed an increase for the third consecutive month. The land crew total increased by one crew, and the marine crew total increased by two for a net increase of three crews to a total of 169.

The June total (169) represents an increase of 2% from last month, a 6% decrease from June, 1986, a 54% decrease from June, 1985, a 66% decrease from June, 1984, a 64% decrease from June, 1983, a 73% decrease from June, 1982, and a decrease of 76% from the same month in 1981.

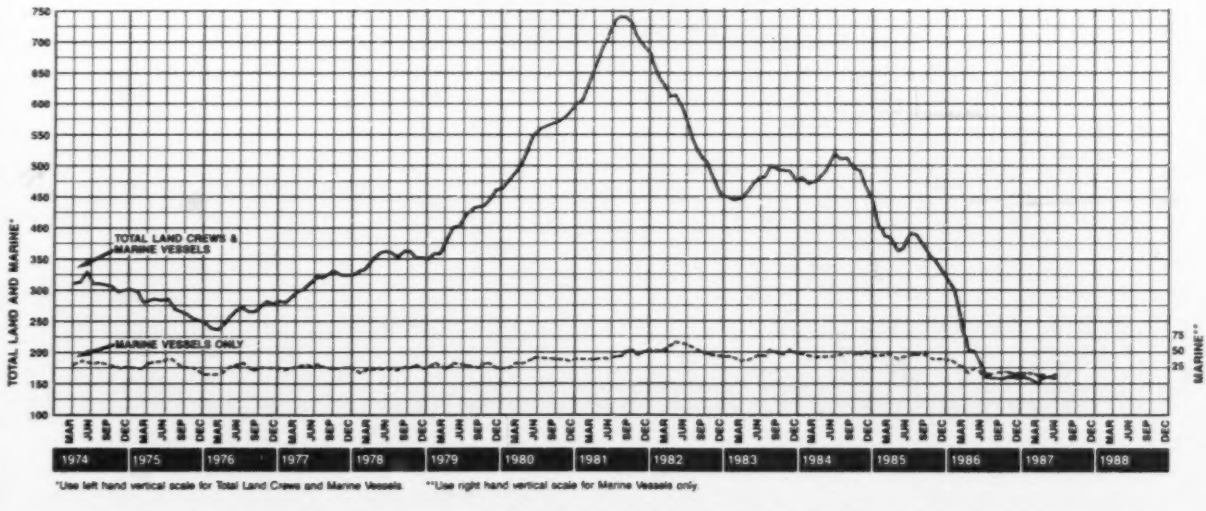
During June, two contractors were operating one of the 133 land crews and one of the nineteen vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	June'86	June'85	June'84	June'83	June'82	June'81
	169	166	180	371	500	471	615	696

	LAND CREWS								MARINE VESSELS							
	This Mo	Last Mo.	June 1986	June 1985	June 1984	June 1983	June 1982	June 1981	This Mo.	Last Mo.	June 1986	June 1985	June 1984	June 1983	June 1982	June 1981
43 Contr's:	133	131	140	294	418	387	503	610	19	17	14	40	38	37	62	37
7 Oil Co's:	14	15	22	30	37	41	43	42	3	3	4	6	7	6	7	6
1 Gov't.:	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Totals	147	146	162	324	455	428	546	652	22	20	18	47	45	43	69	44

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

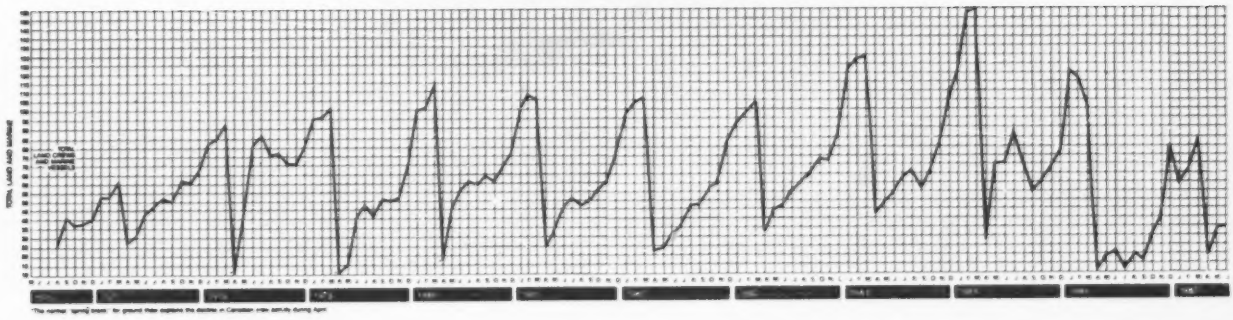
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

June, 1987 (May figures in parentheses)

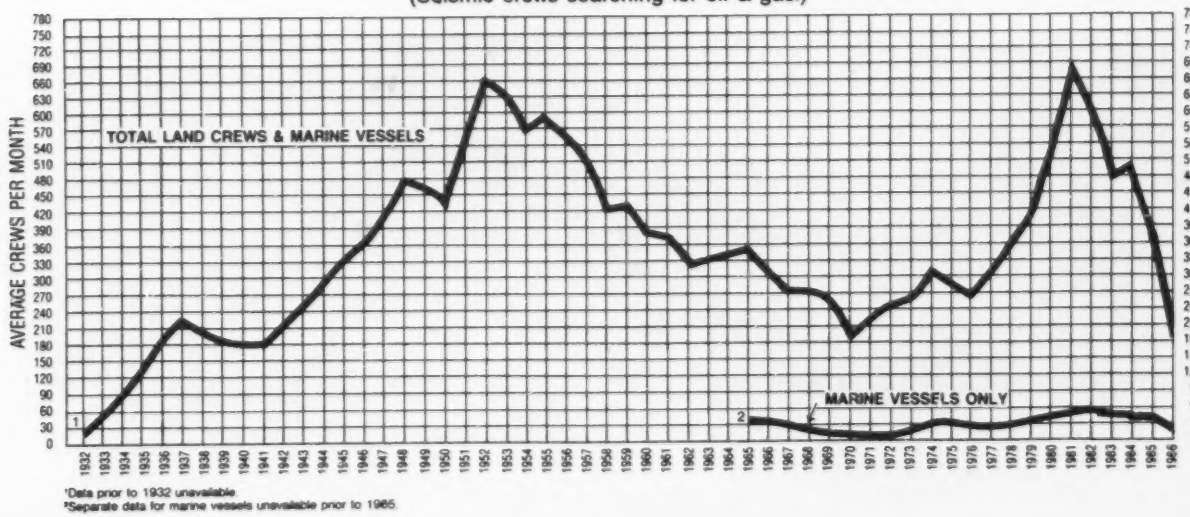
	Land Crews	Marine Vessels
21 Contractors:	32 (33)	1 (1)
1 Oil Company:	2 (0)	0 (0)
Totals:	34 (33)	1 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



¹Data prior to 1932 unavailable
²Separate data for marine vessels unavailable prior to 1966

8/14/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE August 11, 1987

Contact: David L. Yowell
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(918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of July, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the fourth consecutive month. The land crew total increased by twelve, and the marine crew total increased by two for a net increase of fourteen crews to a total of 183.

The July total (183) represents an increase of 8% from last month, a 16% increase from July, 1986, a 54% decrease from July, 1985, a 65% decrease from July, 1984, a 62% decrease from July, 1983, a 69% decrease from July, 1982, and a decrease of 74% from the same month in 1981.

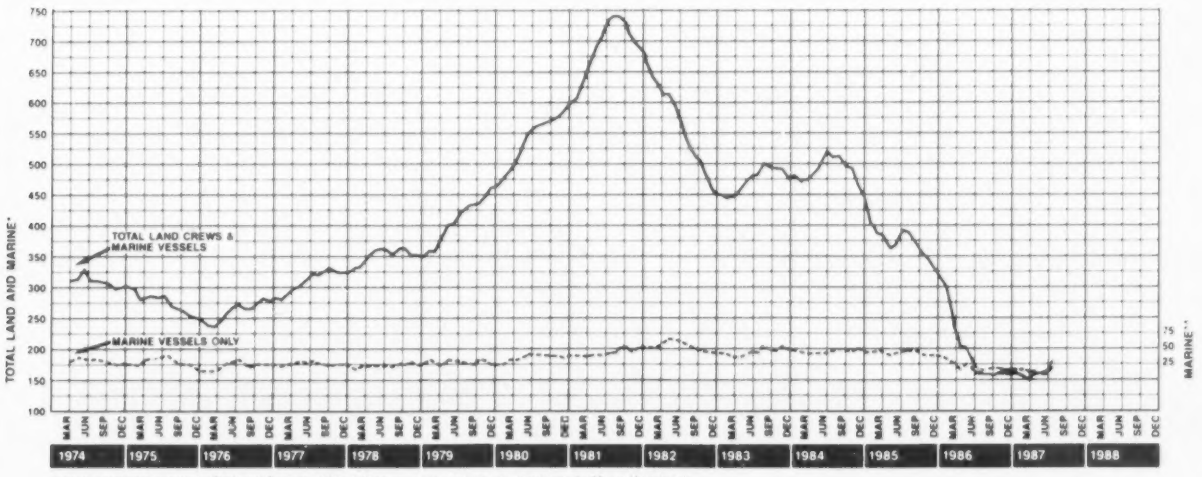
During July, two contractor were operating one of the 145 land crews and one of the twenty-one vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 183	Last Month 169	July'86 158	July'85 397	July'84 529	July'83 483	July 82 593	July'81 711

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	July 1986	July 1985	July 1984	July 1983	July 1982	July 1981	This Mo.	Last Mo.	July 1986	July 1985	July 1984	July 1983	July 1982	July 1981
44 Contr's:	145	133	121	317	445	397	484	625	21	19	17	41	39	41	58	36
7 Oil Co's:	14	14	17	33	37	40	43	43	3	3	3	6	7	5	7	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
TOTALS	159	147	138	350	482	437	527	668	24	22	20	47	47	46	66	43

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



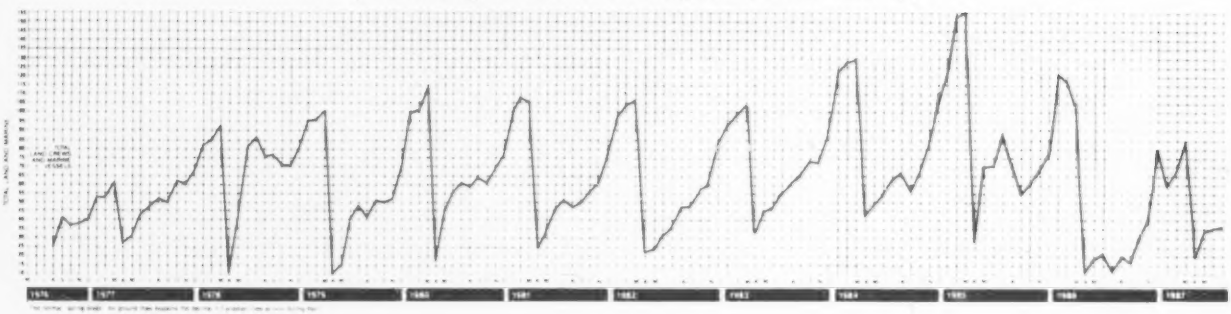
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

July, 1987 (June figures in parentheses)

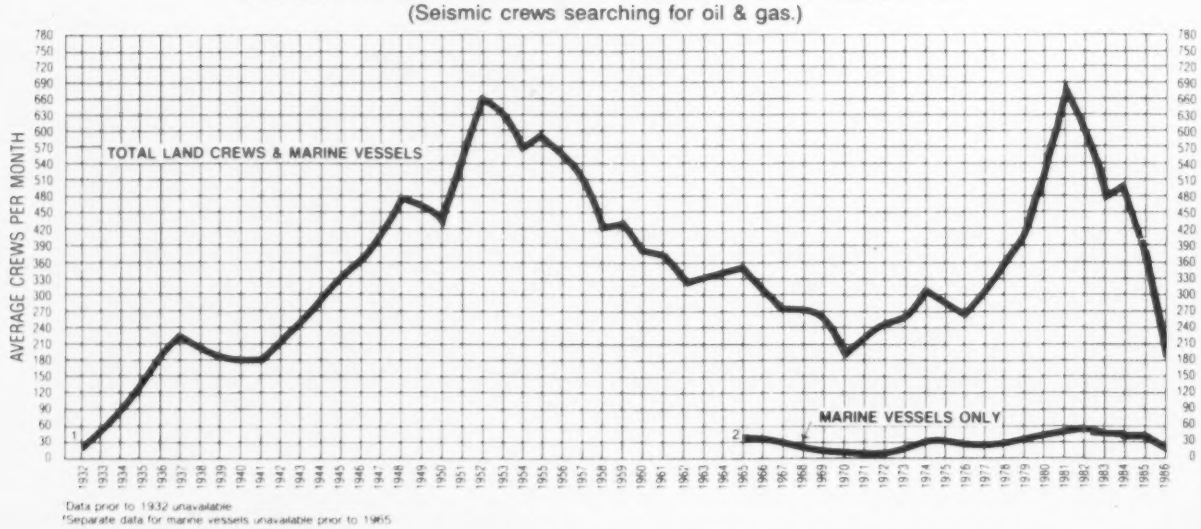
	Land Crews	Marine Crews
23 Contractors:	34 (32)	0 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	36 (34)	0 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

9/23/87 A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
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(918) 493-3516

MONTHLY SEISMIC CREW COUNT

September 14, 1987

(Month of August, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the fifth consecutive month. The land crew total remained the same, and the marine crew total increased by four for a net increase of four crews to a total of 187.

The August total (187) represents an increase of 2% from last month, a 20% increase from August, 1986, a 52% decrease from August, 1985, a 64% decrease from August, 1984, a 61% decrease from August, 1983, a 67% decrease from August, 1982, and a decrease of 75% from the same month in 1981.

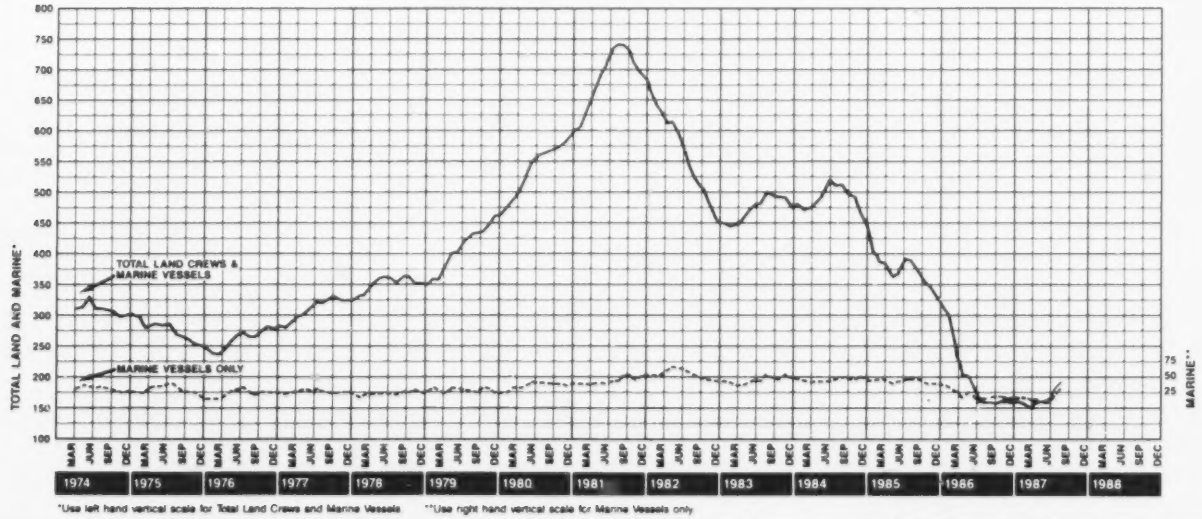
During August, two contractor were operating three of the 145 land crews and none of the twenty-five vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 187	Last Month 183	Aug.'86 156	Aug.'85 390	Aug.'84 523	Aug.'83 484	Aug. 82 562	Aug.'81 735

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983	Aug. 1982	Aug. 1981	This Mo.	Last Mo.	Aug. 1986	Aug. 1985	Aug. 1984	Aug. 1983	Aug. 1982	Aug. 1981
42 Contr's:	145	145	120	308	433	396	458	646	25	21	16	42	45	43	54	39
7 Oil Co's:	14	14	17	33	37	39	42	43	3	3	3	6	7	6	7	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
TOTALS	159	159	137	341	470	435	500	689	28	24	19	49	53	49	62	46

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

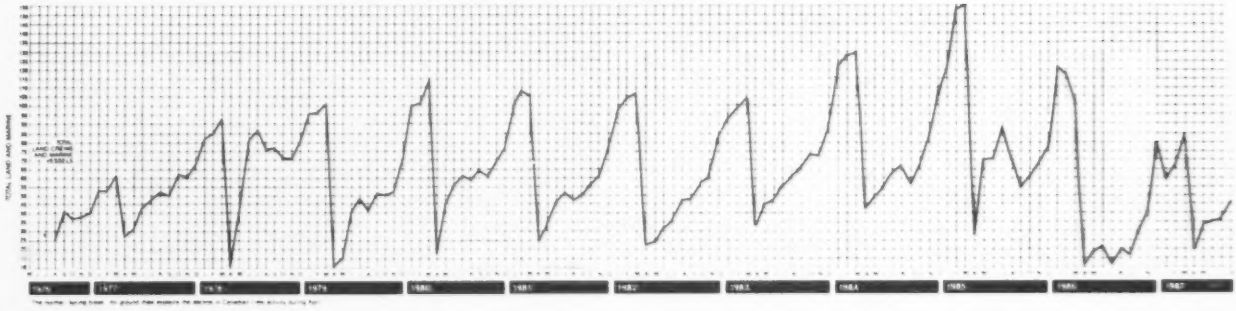
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

August, 1987 (July figures in parentheses)

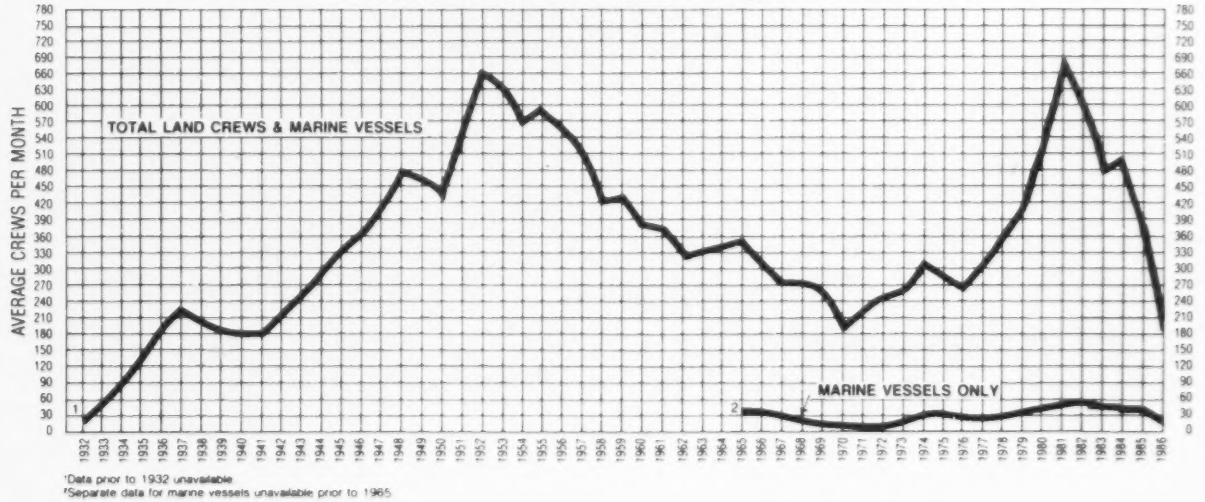
	Land Crews	Marine Crews
22 Contractors:	43 (34)	1 (0)
1 Oil Company:	2 (2)	0 (0)
Totals:	45 (36)	1 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was organized in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy. Both the U.S. and the international surveys are financed in part by a grant from the International Association of Geophysical Contractors.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1965

10/23/87 A8912 -1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT October 23, 1987

(Month of September, 1987)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters has increased for the sixth consecutive month. The land crew total increased by five crews, and the marine crew total increased by one for a net increase of six crews to a total of 193.

The September total (193) represents an increase of 3% from last month, a 25% increase over September, 1986, a 48% decrease from September, 1985, a 63% decrease from September, 1984, a 61% decrease from September, 1983, a 64% decrease from September, 1982, and a decrease of 74% from the same month in 1981.

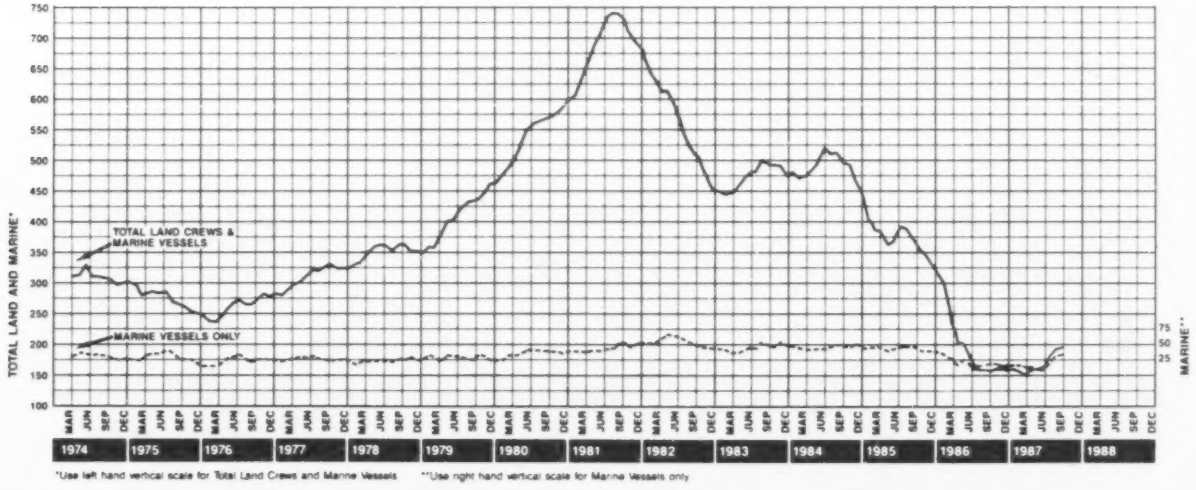
During September, one contractor was operating zero of the 151 land crews and one of the twenty-six vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 193	Last Month 187	Sept'86 155	Sept'85 372	Sept'84 524	Sept'83 501	Sept 82 535	Sept'81 744

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Sept 1986	Sept 1985	Sept 1984	Sept 1983	Sept 1982	Sept 1981	This Mo.	Last Mo.	Sept 1986	Sept 1985	Sept 1984	Sept 1983	Sept 1982	Sept 1981
43 Contr's:	151	145	114	290	435	405	434	654	26	25	20	43	44	49	50	40
7 Oil Co's:	13	14	17	33	37	39	42	43	3	3	4	6	7	7	8	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
TOTALS	164	159	131	323	472	444	476	697	29	28	24	49	52	57	59	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



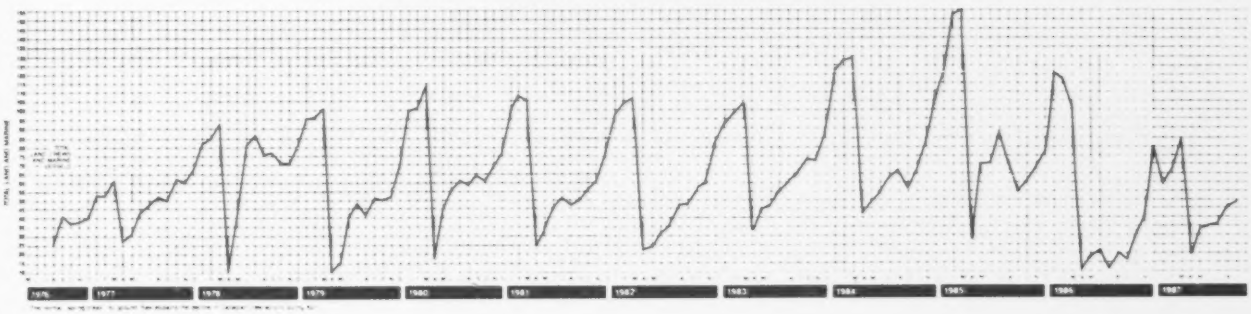
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

September, 1987 (August figures in parentheses)

	Land Crews	Marine Crews
23 Contractors:	46 (43)	1 (1)
1 Oil Company:	2 (2)	0 (0)
Totals:	48 (45)	1 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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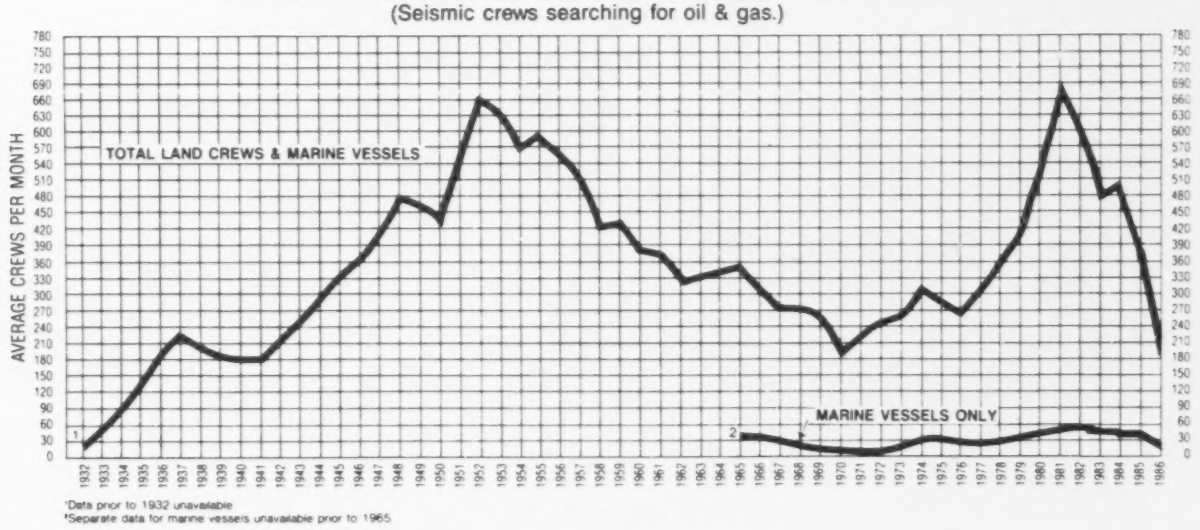
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965